

T-206 P.001/003 F-876

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TO:	U.S. Patent and Tra			DATE: _	February 13, 2004
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FROM:	Barry Sh	ıman		TIME: _	
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filing in the r	esimile transmitted to the above application. ebruary 13, 2004 Date of Deposit	Commissioner for Patents		O, Alexandria, \	VA 22313-1450, for
TELEC	COPY/FAX NUMBER:	703-872-93	19		
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Appl. No. 09/709,098

Attorney Docket No. 81707.0164 Customer No. 26021

2817

Examiner: Benny T. Lee

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Naoyuki SHINO, et al.

Serial No: 09/709,098

Filed:

November 10, 2000

For:

WIRING BOARD

Mail Stop AF Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

(703) 872-9319: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 on February 13, 2004 Date of Deposit Diane Zynn

Per our telephone conversation of February 13, 2004, I am attaching an Abstract, which serves as a confirmation that DE4208058 is a valid number. Also, it would be greatly appreciated if the Examiner could enter DE4208058 on form PTO-892.

If there are any fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-1314.

Respectfully submitted,

HOGAN & HARTSON L.L.P.

Date: February 13, 2004

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Feb-13-04 04:19pm Fromesp@cenet document view

> Waveguide to microstrip transition for micro and millimetre range - has planar substrate with microstrip line and coupling slot t waveguide formed on separate planar layer.

> > Also published as:

DE4329570 (A1)

Patent number:

DE4208058

Publication date:

1993-09-16

Inventor:

MENZEL WOLFGANG PROF DR ING (DE); GRABHERR WILFRIED DIPL ING (DE)

Applicanta

DEUTSCHE AEROSPACE (DE)

Classification:

- International:

. H01P5/107

- european:

H01P5/107

Application number: DE19924208058 19920313

Priority number(s): DE19924208058 19920313; DE19934329570 19930902

The waveguide to microstrip transition has a planar substrate (1) with a microstrip line (2). Beneath this line there is a coupling slot (3), at a quarter wavelength from the end (20), in the ground surface (7). On the back surface there is a rectangular waveguide (6) with a second planar substrate (5) having a dipole

The boundary contour (30) of the coupling slot is rectangular with sides (140) parallel to the waveguide. High frequency power is coupled between the microstrip, the coupling slot and the dipole in the waveguide.

ADVANTAGE - Simple construction.

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